		United States Patent and Ta Address: COMMISSIONER OF P Washington, D.C. 20231 www.uspto.gov	ATENTS AND TRADEMARKS	
ING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
6/09/2000	Jeongmin Moon	3430-0105P	1734	
12/26/2002 h & Birch LLP		FXAM		
P O Box 747				
Falls Church, VA 22040-0747		NGUYEN, HOAN C		
		ART UNIT	PAPER NUMBER	
		2871		
		DATE MAILED: 12/26/2002		
	ch & Birch LLP	06/09/2000 Jeongmin Moon 12/26/2002 Ch & Birch LLP	D6/09/2000 Jeongmin Moon 3430-0105P 12/26/2002	

Please find below and/or attached an Office communication concerning this application or proceeding.

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•		09/5	589,881	MOON, JEONGMIN	
Office Action Summary	Exar	miner	Art Unit		
		ноа	N C. NGUYEN	2871	
	The MAILING DATE of this commu	inication appears o	on the cover sheet with	the correspondence address	,
Period fo					
THE I - Exter after - If the - If NC - Failu - Any r	ORTENED STATUTORY PERIOD MAILING DATE OF THIS COMMU insions of time may be available under the provisio SIX (6) MONTHS from the mailing date of this com- period for reply specified above is less than thirty period for reply specified above, the maximum re to reply within the set or extended period for re- eply received by the Office later than three month ad patent term adjustment. See 37 CFR 1.704(b).	NICATION. ns of 37 CFR 1.136(a). Ir nmunication. (30) days, a reply within t statutory period will apply ply will, by statute, cause t	n no event, however, may a rep he statutory minimum of thirty and will expire SIX (6) MONT he application to become ABA	bly be timely filed (30) days will be considered timely. HS from the mailing date of this communicat NDONED (35 U.S.C. § 133).	lion.
1)🖂	Responsive to communication(s)	filed on <u>24 Octobe</u>	<u>er 2002</u> .		
2a)	This action is FINAL .	2b)🛛 This acti	on is non-final.		
3) Dispositi	Since this application is in conditi closed in accordance with the pra on of Claims				s is
4)🛛	Claim(s) 1-4,6-11,14-21,23 and 2	4 is/are pending in	the application.		
	4a) Of the above claim(s) <u>5,12,13</u> a	and 22 is/are witho	Irawn from considera	lion.	
5)	Claim(s) is/are allowed.				
6)	Claim(s) 1-4,6-11,14-21,23 and 24	is/are rejected.			
7)	Claim(s) is/are objected to.				
8)	Claim(s) are subject to rest	riction and/or elect	tion requirement.		
Applicati	on Papers				
9)	The specification is objected to by t	he Examiner.			
10)	The drawing(s) filed on is/ar	e: a) accepted or	b) objected to by th	e Examiner.	
	Applicant may not request that any c	bjection to the draw	ing(s) be held in abeyar	nce. See 37 CFR 1.85(a).	
11)	The proposed drawing correction fi	ed on is: a)	approved b) di	sapproved by the Examiner.	
	If approved, corrected drawings are	required in reply to the	his Office action.		
12)	The oath or declaration is objected	to by the Examine	er.		
Priority u	inder 35 U.S.C. §§ 119 and 120				
13)🛛	Acknowledgment is made of a clai	m for foreign prior	ity under 35 U.S.C. §	119(a)-(d) or (f).	
a)	All b) Some * c) None of	:			
	1. Certified copies of the priori	y documents have	e been received.		
	2. Certified copies of the priori	y documents have	e been received in Ap	plication No	
* 5	3. Copies of the certified copie application from the Inte See the attached detailed Office act	rnational Bureau (PCT Rule 17.2(a)).	eceived in this National Stage eceived.	
14) 🗌 A	Acknowledgment is made of a claim	for domestic prior	rity under 35 U.S.C. §	119(e) (to a provisional applica	ation)
) The translation of the foreign I Acknowledgment is made of a clain				
Attachmen	t(s)				
2) 🛄 Notic	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review nation Disclosure Statement(s) (PTO-1449)			ummary (PTO-413) Paper No(s) formal Patent Application (PTO-152)	_ ·

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in

37 CFR 1.17(e), was filed in this application after final rejection. Since this application is

eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR

1.17(e) has been timely paid, the finality of the previous Office action has been

withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 10/24/2002 has

been entered.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act

of 1999 (AIPA) do not apply to the examination of this application as the application

being examined was not (1) filed on or after November 29, 2000, or (2) voluntarily

published under 35 U.S.C. 122(b). Therefore, this application is examined under 35

U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

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1. Claims 1-4, 6-11 and 14-21, 23 and 24 are rejected under 35 U.S.C. 102(e) as being anticipated by Shinji et al. (US6259854B1).

In regard to claims 1, 2 and 10, Shinji et al. (Figs. 1 a-1 5b) disclose

- an auxiliary light source device comprising: a light source 1;
- a light reflecting member (reflector 4) which guides light from the light source into the light directing member,
- a light directing member for directing incident light from the light source toward the reflector, the light directing member including
- a lower surface having a plurality of convex portions extending from the lower surface, each of the convex portions having a substantially planar surface which is substantially parallel to the lower surface, and an angle between the lower surface and a surface connecting the planar surface of the convex portion is about 90° since slope angle δ =0° or 2° (col. 7 lines 5-6).

In regard to claims 21 and 24, Shinji et al. (Figs. 1 a-1 5b) disclose an auxiliary light source device comprising:

- a light source extending along a width of the reflector to emit light along a length of the reflector;
- a light directing device located above the reflector and adjacent to the light source to direct light from the light source to the reflector such that a light distribution of light directed by the light directing device is substantially uniform

along the length of the reflector, and such that the directed light is substantially perpendicular to the reflector,

 the light-directing device includes a plurality of portions extending toward the reflector, spacing between the portions decreasing along the length of the reflector with increasing distance from the light source.

In regard to claims 11 and 14, Shinji et al. (Figs. 1 a-1 5b) disclose an auxiliary light source device comprising:

• an upper reflective surface to reflect impinging light above a certain incidence angle;

• a lower reflective surface having a plurality of convex portions extending toward the reflector to direct light from the auxiliary light source device to the reflector;

• an entry surface connecting the upper and lower reflective surfaces through which light from a light source enters, wherein

• each convex portion includes a planar portion and sides connecting the planar portion with the lower reflective surface, and an angle between the lower surface and the sides is 90° since slope angle $\delta = 0^\circ$ or 2° (col. 7 lines 5-6);

o a planar portion is substantially parallel to the lower reflective surface.

In regard to claims 3 and 19, Shinji et al. (Fig. 15b) disclose an auxiliary light source device, wherein spacing between the convex portions decreases with increasing distance from the light source (Fig. 15b).

In regard to claims 4, 20 and 23, Shinji et al. (Fig. 15a) disclose the spacing between adjacent convex portions of lower surface of the light-directing member is 100 μ m (Fig. 1 5a) that is in a range of 10 μ m to 1 000 μ m and a width W of each portion is 20 μ m $\leq W \leq 200 \mu$ m (abstract), which covers a width less than 100 μ m. In regard to claims 6 and 15, Shinji et al. (Fig. 1 b) disclose the planar surface of each convex portion has a cross-section of substantially circular shape (Fig. 1 b).

In regard to claims 7 and 16, Shinji et al. (Fig. 1f) disclose the planar surface of each convex portion has a cross section of rectangular shape (Fig. 1f).

In regard to claims 8 and 17, Shinji et al. (Fig. 1 d or 1 g) disclose the plane surface of the plurality of convex portions has a bar shape extending perpendicular to a direction of light propagation in the light directing member 11 and along substantially an entire width of the reflective LCID device.

In regard to claim 9, Shinji et al. (Fig. 15b) disclose (Table 1) a distance/height between the lower surface and the planar surface of each convex portion is $12\mu m$ and $20\mu m$ that is less than $50\mu m$.

In regard to claim 18, Shinji et al. (Fig. 15b) disclose a plurality of convex portion extending from the lower surface to ensure an uniform distribution of light along a length of the device.

Response to Arguments

Applicant's arguments filed on <u>Oct. 24, 2002</u> have been fully considered but they are not persuasive.

Applicant's ONLY arguments are follows:

Shinji fails to disclose an angle between a lower surface and surface connecting the planar surface of the convex portion of about 90°

Examiner's responses to Applicants' ONLY arguments are follows:

Shinji teaches (Fig. 5 col. 7 lines 5-6 and lines 20-22) an angle between a lower surface and surface connecting the planar surface of the convex portion of about 90° with slope angle $\delta = 0^{\circ}$ or 2°.

However, applicant admits (in Remarks on page 5 lines 5-8) " the slope angle of the trapezoid $\delta = 5^{\circ}$ ", therefore, this would correspond to an angle 95° that is <u>about</u> or approximately 90°.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to HOAN C. NGUYEN whose telephone number is (703) 306-0472. The examiner can normally be reached on MONDAY-THURSDAY:8:00AM-4:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, SIKES L WILLIAM can be reached on (703) 308-4842. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 746-8178 for regular communications and (703) 308-7724 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0530.

HOAN C. NGUYEN Examiner Art Unit 2871

chn December 14, 2002

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